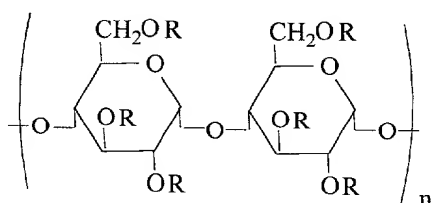


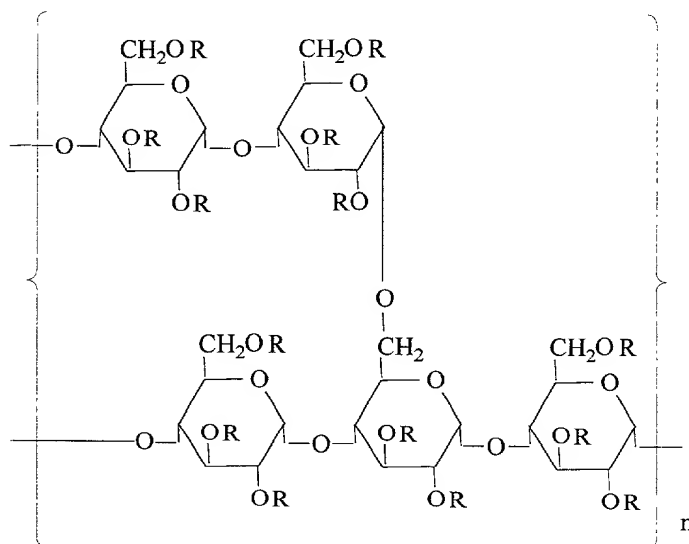
WHAT IS CLAIMED IS:

1. A laundry and/or fabric care composition comprising:
 - a) from about 1% to about 80% by weight of surfactants selected from the group consisting of nonionic, anionic, cationic, amphoteric, zwitterionic surfactants, or mixtures thereof; and
 - b) from about 0.1% to about 5.0% by weight of a mixture of modified starch-based polymers and/or oligomers of the general formulas, alone or in combination



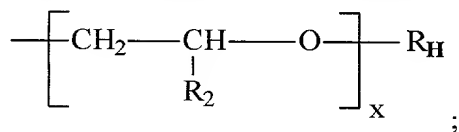
I

or



II

wherein each R is selected from the group consisting of R_2 , R_C , and



wherein:

- each R_2 is independently selected from the group consisting of H and C_1 - C_4 alkyl;
- each R_C is $\text{---}(\text{CH}_2)_y\text{---}\overset{\text{O}}{\parallel}\text{C}\text{---O}$,
wherein each Z is independently selected from the group consisting of M, R_2 , R_C , and R_H ;
- each R_H is independently selected from the group consisting of C_5 - C_{20} alkyl, C_5 - C_7 cycloalkyl, C_7 - C_{20} alkylaryl, C_7 - C_{20} arylalkyl, substituted alkyl, hydroxyalkyl, C_1 - C_{20} alkoxy-2-hydroxyalkyl, C_7 - C_{20} alkylaryloxy-2-hydroxyalkyl, $(R_4)_2$ N-alkyl, $(R_4)_2$ N-2-hydroxyalkyl, $(R_4)_3$ N-alkyl, $(R_4)_3$ N-2-hydroxyalkyl, C_6 - C_{12} aryloxy-2-hydroxyalkyl,

$$\begin{array}{c} \text{O} \quad \text{R}_5 \quad \text{O} \quad \text{R}_5 \\ \parallel \quad | \quad \parallel \quad | \\ \text{---c---CH---C---CH}_2, \quad \text{---C---CH}_2\text{---CH---C---O} \end{array}, \text{ and}$$

$$\begin{array}{c} \text{O} \quad \text{R}_5 \quad \text{O} \\ \parallel \quad | \quad \parallel \\ \text{---c---CH---CH}_2\text{---C---O} \end{array};$$
- each R_4 is independently selected from the group consisting of H, C_1 - C_{20} alkyl, C_5 - C_7 cycloalkyl, C_7 - C_{20} alkylaryl, C_7 - C_{20} arylalkyl, aminoalkyl, alkylaminoalkyl, dialkylaminoalkyl, piperidinoalkyl, morpholinoalkyl, cycloalkylaminoalkyl and hydroxyalkyl;
- each R_5 is independently selected from the group consisting of H, C_1 - C_{20} alkyl, C_5 - C_7 cycloalkyl, C_7 - C_{20} alkylaryl, C_7 - C_{20} arylalkyl, substituted alkyl, hydroxyalkyl, $(R_4)_2$ N-alkyl, and $(R_4)_3$ N-alkyl;

wherein:

M is a suitable cation selected from the group consisting of Na^+ , K^+ , $1/2\text{Ca}^{2+}$, $1/2\text{Mg}^{2+}$, or $^+\text{NH}_j\text{R}_k$ wherein j and k are independently from 0 to 4 and wherein j + k is 4 and R in this formula is any moiety capable of forming a cation, preferably methyl and/or ethyl group or derivative;

each x is from 0 to about 5;

each y is from about 1 to about 5; and

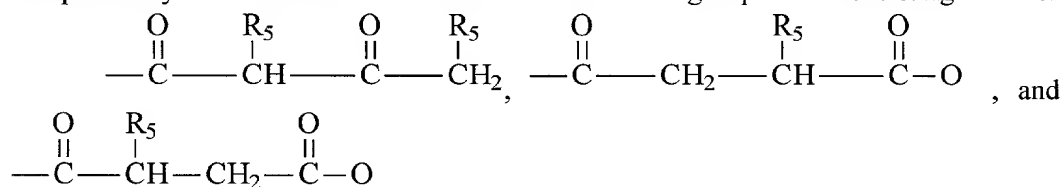
provided that:

- the Degree of Substitution for group R_H is between about 0.001 and about 0.1, more preferably between about 0.005 and about 0.05, and most preferably between about 0.01 and about 0.05;
- the Degree of Substitution for group R_C wherein Z is H or M is between about 0 and about 2.0, more preferably between about 0.05 and about 1.0, and most preferably between about 0.1 and about 0.5;
- if any R_H bears a positive charge, it is balanced by a suitable anion; and

- two R₄'s on the same nitrogen can together form a ring structure selected from the group consisting of piperidine and morpholine.

2. The laundry and/or fabric care composition of claim 1, wherein each R_H is independently selected from the group consisting of C₅-C₂₀ alkyl, C₅-C₇ cycloalkyl, C₇-C₂₀ alkylaryl, C₇-C₂₀ arylalkyl, substituted alkyl, hydroxyalkyl, C₁-C₂₀ alkoxy-2-hydroxyalkyl, C₇-C₂₀ alkylaryloxy-2-hydroxyalkyl, (R₄)₂N-alkyl, (R₄)₂N-2-hydroxyalkyl, (R₄)₃N-alkyl, (R₄)₃N-2-hydroxyalkyl, and C₆-C₁₂ aryloxy-2-hydroxyalkyl.

3. The laundry and/or fabric care composition of claim 1, wherein each R_H is independently selected from the group consisting of

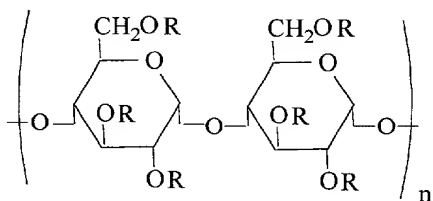


4. The laundry and/or fabric care composition of claim 1, wherein the modified starch-based polymer and/or oligomer has an average molecular weight of from about 5,000 to about 2,000,000.

5. The laundry and/or fabric care composition of claim 1, wherein the modified starch-based polymer and/or oligomer has an average molecular weight of from about 10,000 to about 1,000,000.

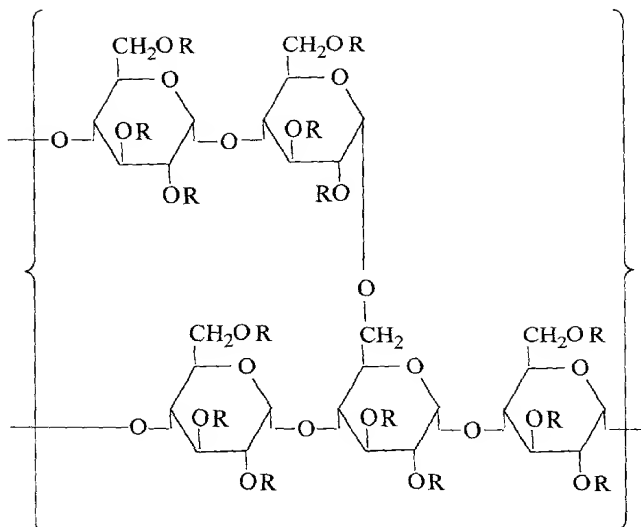
6. A laundry additive composition comprising:

- from about 1% to about 80% by weight of water; and
- from about 0.1% to about 80.0% by weight of modified starch-based polymers and/or oligomers of the general formulas, alone or in combination:



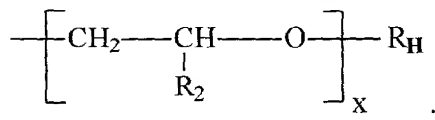
I

or



II

wherein each R is selected from the group consisting of R_2 , R_C , and



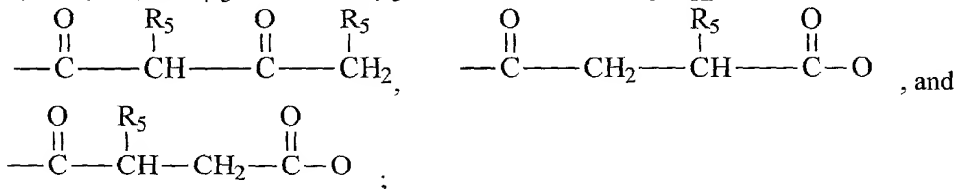
wherein:

- each R_2 is independently selected from the group consisting of H and C_1 - C_4 alkyl;

- each R_C is $-(\text{CH}_2)_y-\overset{\text{O}}{\parallel}\text{C}-\text{O}-$,

wherein each Z is independently selected from the group consisting of M, R_2 , R_C , and R_H ;

- each R_H is independently selected from the group consisting of C_5 - C_{20} alkyl, C_5 - C_7 cycloalkyl, C_7 - C_{20} alkylaryl, C_7 - C_{20} arylalkyl, substituted alkyl, hydroxyalkyl, C_1 - C_{20} alkoxy-2-hydroxyalkyl, C_7 - C_{20} alkylaryloxy-2-hydroxyalkyl, $(R_4)_2$ N-alkyl, $(R_4)_2$ N-2-hydroxyalkyl, $(R_4)_3$ N-alkyl, $(R_4)_3$ N-2-hydroxyalkyl, C_6 - C_{12} aryloxy-2-hydroxyalkyl,



- each R_4 is independently selected from the group consisting of H, C_1 - C_{20} alkyl, C_5 - C_7 cycloalkyl, C_7 - C_{20} alkylaryl, C_7 - C_{20} arylalkyl, aminoalkyl, alkylaminoalkyl, dialkylaminoalkyl, piperidinoalkyl, morpholinoalkyl, cycloalkylaminoalkyl and hydroxyalkyl;
- each R_5 is independently selected from the group consisting of H, C_1 - C_{20} alkyl, C_5 - C_7 cycloalkyl, C_7 - C_{20} alkylaryl, C_7 - C_{20} arylalkyl, substituted alkyl, hydroxyalkyl, $(R_4)_2N$ -alkyl, and $(R_4)_3N$ -alkyl;

wherein:

M is a suitable cation selected from the group consisting of Na^+ , K^+ , $1/2Ca^{2+}$, $1/2Mg^{2+}$, or $^+NH_jR_k$ wherein j and k are independently from 0 to 4 and wherein j + k is 4 and R in this formula is any moiety capable of forming a cation, preferably methyl and/or ethyl group or derivative;

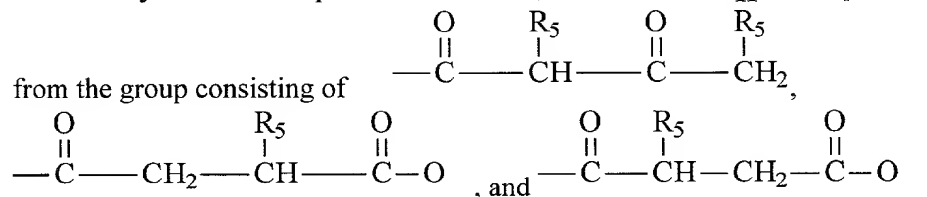
each x is from 0 to about 5;

each y is from about 1 to about 5; and

provided that:

- the Degree of Substitution for group R_H is between about 0.001 and about 0.1, more preferably between about 0.005 and about 0.05, and most preferably between about 0.01 and about 0.05;
 - the Degree of Substitution for group R_C wherein Z is H or M is between about 0 and about 2.0, more preferably between about 0.05 and about 1.0, and most preferably between about 0.1 and about 0.5;
 - if any R_H bears a positive charge, it is balanced by a suitable anion; and
 - two R_4 's on the same nitrogen can together form a ring structure selected from the group consisting of piperidine and morpholine.
7. The laundry additive composition of claim 6, wherein each R_H is independently selected from the group consisting of C_5 - C_{20} alkyl, C_5 - C_7 cycloalkyl, C_7 - C_{20} alkylaryl, C_7 - C_{20} arylalkyl, substituted alkyl, hydroxyalkyl, C_1 - C_{20} alkoxy-2-hydroxyalkyl, C_7 - C_{20} alkylaryloxy-2-hydroxyalkyl, $(R_4)_2N$ -alkyl, $(R_4)_2N$ -2-hydroxyalkyl, $(R_4)_3N$ -alkyl, $(R_4)_3N$ -2-hydroxyalkyl, and C_6 - C_{12} aryloxy-2-hydroxyalkyl.

8. The laundry additive composition of claim 6, wherein each R_H is independently selected



9. The laundry additive composition of claim 6, wherein the modified starch-based polymer and/or oligomer has an average molecular weight of from about 5,000 to about 2,000,000.

10. The laundry additive composition of claim 6, wherein the modified starch-based polymer and/or oligomer has an average molecular weight of from about 10,000 to about 1,000,000.

11. The laundry additive composition of claim 1, wherein the Degree of Substitution for group R_H is between about 0.01 and 0.05.

12. The laundry additive composition of claim 1, wherein the Degree of Substitution for group R_C wherein Z is H or M is between about 0.4 and 0.7.

13. The laundry additive composition of claim 6, wherein the Degree of Substitution for group R_H is between about 0.01 and 0.05.

14. The laundry additive composition of claim 6, wherein the Degree of Substitution for group R_C wherein Z is H or M is between about 0.4 and 0.7.

15. A method for treating a fabric in need of treatment comprising contacting the fabric with a modified starch-based polymer and/or oligomer material such that the fabric is treated.

16. The method according to Claim 15 wherein said modified starch-based polymer and/or oligomer material is selected from the group consisting of: amylose, amylopectin and mixtures thereof.

17. A product comprising a modified starch-based polymer and/or oligomer material, the product further including instructions for using the modified starch-based polymer and/or oligomer material to treat a fabric in need of cleaning, the instructions including the step of contacting the fabric with a wash solution comprising the product.

18. The product according to Claim 17 wherein the product is a laundry detergent.
19. The product according to Claim 17 wherein the product is a laundry additive.
20. The product according to Claim 17 wherein the product is a fabric care composition.
21. A treated article made by the method according to Claim 15.